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50X1-HUM

with second IF = 120 kc), 2 6K12B IF amplifiers, 6X6 second detector and AVC (6J5 third oscillator with 2 crystals -- 119 and 121 kc, or with variable tuning), 6X6 noise limiter, 6N8 in S-meter circuit, 6SJ7 first audio, and a 6V6 second audio amplifier.

The second-class receiver (tuning range 1.5-30 Mc) should have a crystal filter, 6AZh5 RF amplifier, 6A10 mixer, 6J5 local oscillator, with IF = 465 or 1000 kc, 6K12 IF amplifier (1 or 2 stages), 6J5 second local oscillator, 6B8 or 6G7 second detector, AVC and first audio, and a 6V6 audio output.

Both of these receivers should be designed in battery and ac variants. The second-class receiver should be of relatively simple design with emphasis on ease of maintenance and adjustment.

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